REMARKS

Claims 1-22 are presently pending. Claims 1-11, 13, 15, 17-19, and 21 are rejected. Claims 12 and 16 were objected to but indicated as allowable. Claim 22 is added. Assignee appreciates Examiner's indication of allowable subject matter.

Claim 1 was rejected under 35 U.S.C. § 103(a) as being obvious from Sanders. Claim 1 recites, among other limitations, "estimating, at said mobile receiver, first bit transitions within satellites navigation data transmitted by at least one satellite".

Examiner has noted that "In column 4 lines 15-55, Sanders discloses a spread spectrum signal receiver including data bit transition detected 36 uses the relative strengths of the integrations for determining the time of the data bit transmissions of the incoming signal. The navigation processor 38 uses information from the correlation machine 20, the signal processor 32 and the data bit transition detector 36 for determining the information in the data bits, and determining location and velocity of the antenna 12. In view of the above, the foregoing teachings correspond of the claimed step of 'estimating first bit-transitions'." Office Action at 3.

Assignee respectfully traverses and submits that Sanders does not teach "estimating, at said mobile receiver, first bit transitions within satellites navigation data transmitted by at least one satellite". Although Examiner has indicated that "Sanders discusses GPS navigation data bits, in general, including, HOW, TOW …", Assignee respectfully submits that "a hand over word (HOW) at the start of the subframe is recognized" Sanders, Col. 1, Lines 49-50, "[W]hen signal acquisition is achieved"

Col. 1, Line 48. "[C]orrelation and accumulation may need to be repeated many times until a correlation level is found that exceeds a correlation threshold indicating GPS signal acquisition." Col. 1, Lines 44-47.

Since Sanders teaches "receiving an incoming spread spectrum signal", Col. 3, Lines 41-42, that "The processor correlation and accumulation may need to be repeated many times until a correlation level is found that exceeds a correlation threshold indicating GPS signal acquisitions", and "When signal acquisition is achieved the GOS receiver monitors the GPS data bits until a hand over word (HOW) at the start of the subframe is recognized", Assignee respectfully submits that "Because the correlation process as recited above is performed on the incoming signal samples" Office Action at 4, Sanders does not teach "estimating, at said mobile receiver, first bit transitions within satellites navigation data transmitted by at least one satellite".

Additionally, claim 1 recites, among other limitations, "generating a bit pattern including a known preamble and an extended preamble, said extended preamble comprising expected data bits within said satellite navigation data".

Examiner has indicated that, "the GPS navigation message inherently includes the extended preamble as disclosed in paragraph [0009] of the original disclosure. Because the correlation process as recited above is performed on the incoming signal samples, one or ordinary skill in the art at the time the invention was made to modify Sanders local spread spectrum signal generator 22 to generate local spread spectrum signal including preamble and extended preamble for performing the correlation

process."

Assignee respectfully traverses because "modify Sanders local spread spectrum signal generator 22 to generate local spread spectrum signal including preamble and extended preamble for performing the correlation process" because the spread spectrum signal would not include "said extended preamble comprising expected data bits within said satellite navigation data".

Accordingly, for at least these reasons, Assignee respectfully traverses the rejection to independent claims 1, 17, and 21, as well as to dependent claims 2-16, and 18-20.

Claim 14 was rejected under 35 U.S.C. § 103(a) form Sanders. Claim 14 recites, among other limitations, "determining said first bit-transitions in response to said integrated sequence of correlation results". Although Examiner makes reference to column 1, lines 30-50, it is noted however, that Examiner appears to read "generating a bit pattern including a known preamble and an extended preamble" on the "local spread spectrum signal". Therefore, the "bit pattern" cannot be determined "in response to said integrated sequence of correlation results" if the "bit pattern" is "local spread spectrum signal". Accordingly, Sanders does not teach "determining said first bit-transitions in response to said integrated sequence of correlation results."

Claim 21 is added and recites, among other limitations "despreading a GPS satellite signal before estimating". Assignee respectfully submits that Sanders does not teach "dispreading … before estimating".

CONCLUSION

For at least the foregoing reasons, Assignee respectfully submits that each of the pending claims are allowable and Examiner is respectfully requested to pass this case to issuance. The Commissioner is hereby authorized to charge additional fees or credit overpayments to the deposit account of McAndrews, Held & Malloy, Account No. 13-0017.

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Respectfully submitted,

Mirut Dalal
Reg. No. 44,052
Attorney for Applicants

McAndrews, Held & Malloy, Ltd.
500 West Madison Street
Chicago, Illinois 60661

Telephone: (312) 775-8000
Facsimile: (312) 775-8100